

# Why Focus on Transport in Africa?



Photo credit: Olli Pitkanen/Flickr

#### Impact on climate

CO<sub>2</sub> emissions from transport increased 53.7% between 1990 and 2010 in Africa<sup>1</sup>

- Air Quality and health
  - Transport major source of air pollution Vehicle emissions growing in Africa
- Poor road infrastructure

Approx. 15% of roads are paved in Sub-Saharan Africa<sup>2</sup>

- Road safety
  - 25% of injury-related deaths in Africa<sup>3</sup>
- Economic development

Transport vital for trade, jobs, commerce and business

# **Key Challenges**

- Urbanization
- Motorization
- Congestion
- Development & poverty reduction
- Urban planning
- Vehicles emissions



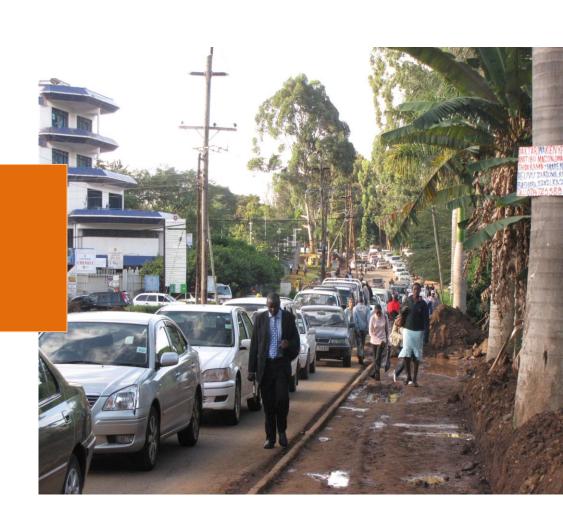
# Opportunity to move to sustainable transport in Africa is *now*

- Sustainable transport key component of green growth agenda
- Sustainable transport cross cutting development, poverty reduction, environment, health
- Leapfrog technologies and policies
- Vital to economic development and growth
- Integrated approach is key



# **Priorities**

- Urban Transport
- Road safety
- Air quality
- Energy and climate



### 1- Urban Transit

- Quality, affordable, clean mass transit systems
- Safe non-motorized transport infrastructure, connected to public transport
- Reduces congestion, provides time and cost effective mobility to large groups, and reduces energy use and air pollution



Picture: bus rapid transit system in Jakarta

### 2- Road Safety

 In Africa, majority in urban areas rely on walking or cycling

Major cause of death in Africa

Health and economic impacts

 Lack of safe and well-designed walking and cycling facilities key issue



Picture: NMT infrastructure in Nairobi

## **3- Air Quality**

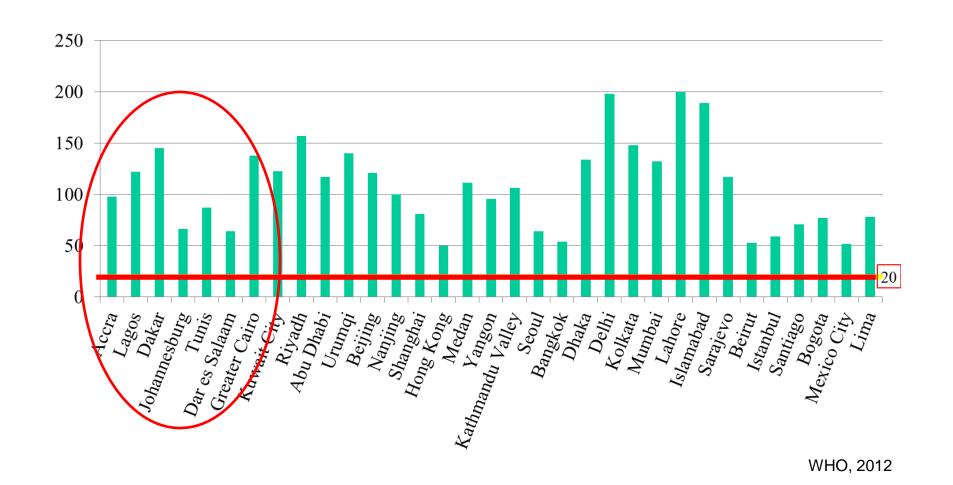
- Transport major source of air pollution
- With major health impacts and socio-economic impacts
- Vehicle population in Africa is growing; emissions are high with poor fuel quality and import of old, inefficient vehicles
- Small particulate matter (PM)
  emissions are key problem especially in cities



Picture: smoke emissions from bus in Nairobi



# Annual average PM levels of African cities are well above WHO Guideline



# **4- Energy and Climate**

emissions



**Picture: light rail system in Tunis** 

# Solutions: Example from 3 Initiatives

### **UNEP:**

- The Partnership for Clean Fuels and Vehicles (PCFV)
- The Global Fuel Efficiency Initiative (GFEI)
- Share the Road (StR)

# Africa Sustainable Transport Forum:

UNEP/World Bank Secretariat/UN-Habitat

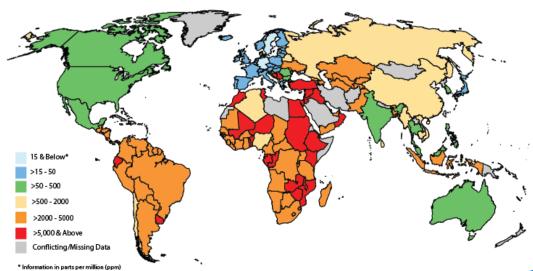
# LEDS Transport Working Group:

- National Renewable Energy Laboratory (NREL)
- EMBARQ, the sustainable transport and urban development program of the World Resources Institute (WRI)
- United Nation Environmental Programme (UNEP)



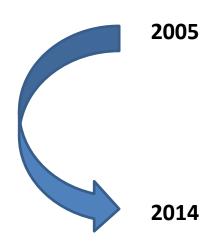






# **Global Progress in Reducing Sulphur Levels in Diesel Fuel**

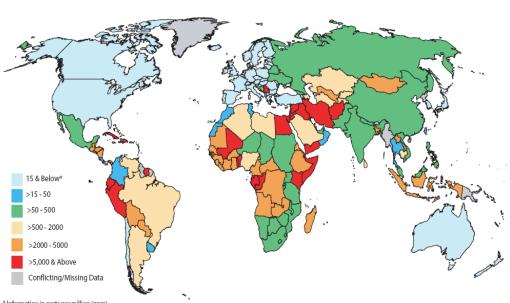
Partnership for Clean **Fuels and Vehicles** 





Diesel Fuel Sulphur Levels: Global Status February 2014

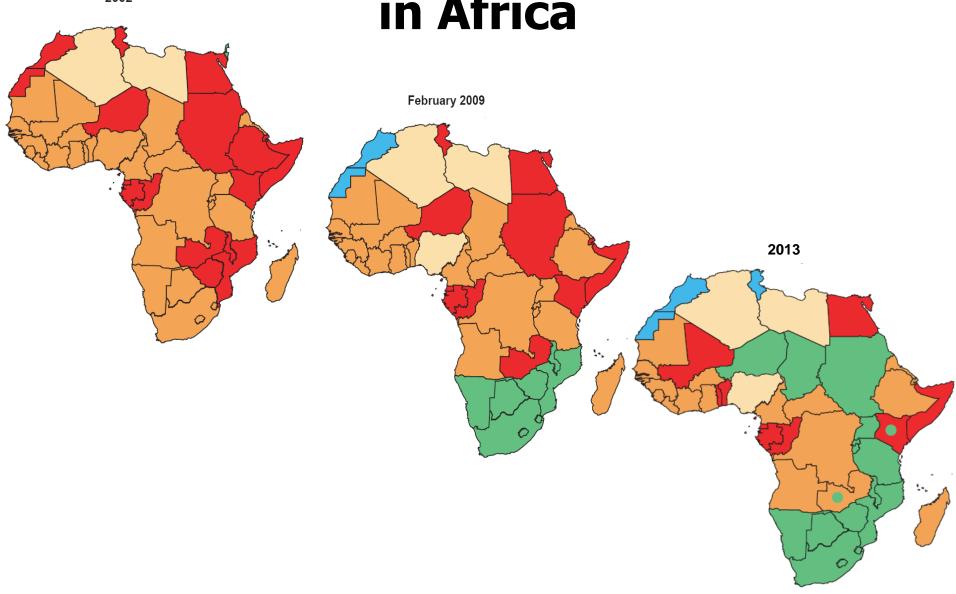




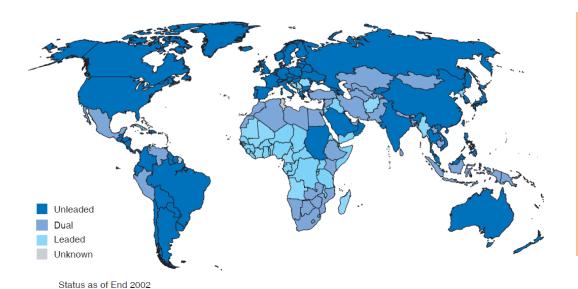
\* Information in parts per million (ppm)

For additional details and comments per country, visit www.unep.org/transport/pcfv/

Progress in Lowering Sulphur in Diesel in Africa

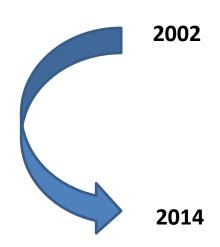


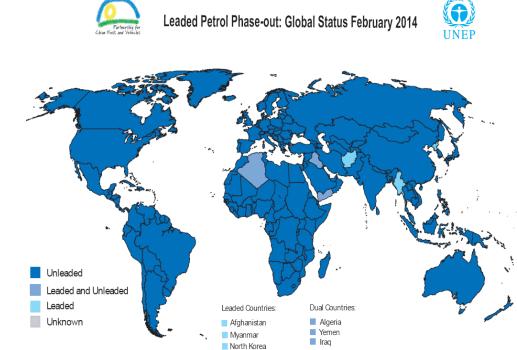




# Global progress in eliminating lead from petrol

Partnership for Clean Fuels and Vehicles

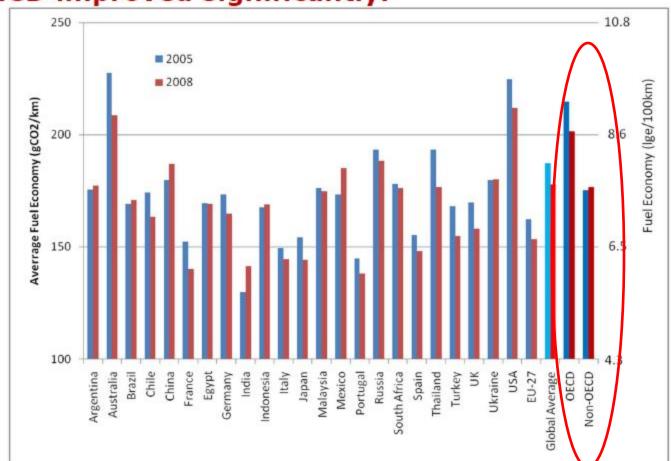






# Results by country

There's a wide range of averages across the studied countries. Non-OECD countries have a lower (better) average than OECD, but improved less (or not at all) between 2005-2008 whereas OECD improved significantly.





# Fuel Efficiency: African Examples

Kenya	2005	2008	<b>Ethiopia</b>	2005	2008	2010
Average	7.69	7.6	Average	8.4	8.4	7.9
(l/100km)			(l/100km)			
Diesel	8.67	9.09	Diesel	9.3	9.4	9.0
Petrol	7.52	7.2	Petrol	7.8	7.4	6.9

Global	2005	2008	2011
Average	8.07	7.67	7.2
(l/100km)			
OECD	8.1	7.6	7.0
Average			
Non-OECD	7.5	7.6	7.5
Average			



Catalyze governments and donor policies for systematic investments in walking and cycling infrastructure

Projects in Burundi, Kenya, Rwanda, and Uganda

Policy, training and design of pilot projects



#### The Forum will:

- ensure high level attention and policy dialogue
- share knowledge, capacity and best practices
- promote inclusion of sustainable transport in the development and investment policies
- promote harmonized approaches
- build on existing initiatives under way in Africa
- develop an African sustainable transport action plan
- 1st Ministerial Conference
  Oct 2014



# **LEDS Transport Working Group**

**Knowledge management and** diffusion

LEDS Transportation Toolkit

- Peer-to-peer trainings and regional workshops
- **Policy making support**

Strengthening Peru's Capacity to Develop a GHG Emission Reduction Strategy for the Transport Sector

- Readiness for climate finance
- Strengthen capacities

To plan for, access, report on, and use climate finance and implement and monitor resulting projects



#### Developing Strategies for Clean, Efficient Transportation

The Low Emission Transport Toolkit supports development planners, technical experts, and decision makers at national and local levels to plan and implement low emission transportation systems that support economic growth. This toolkit helps users navigate a variety of resources to identify the most effective tools to build and implement low emission development strategies (LEDS) for the transport sector. Learn more in the report on LEDS for transportation

For direct assistance, find contacts and connect with an expert.

#### **Take Key Actions**

Learn about the six key actions necessary to successfully implement a low emission development strategy for the transportation sector.





Avoid, Shift, Improve

Cut the need for





sustainable low emission development strategy





Use the avoid, shift, improve framework to holistically design a

Change to low-



Enhance infrastructure





Search for Tools

Find resources to develop strategies for

 Development Impacts Assessment Fuels and Efficiency

· Multimodal Integration · Non-Motorized Transport

· Policies and Regulations

Vehicles



# THANK YOU

Websites	Contacts	Secretariat
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